

To: Brown, Anthony R (RM)[anthony.brown@bp.com]; Lombardi, Marc (marc.lombardi@amecfw.com)[marc.lombardi@amecfw.com]
Cc: Greg Reller[gr@burlesonconsulting.com]; Cory Koger[Cory.S.Koger@usace.army.mil]; Hillenbrand, John[Hillenbrand.John@epa.gov]; Chang, Kay SPK[Kay.Chang@usace.army.mil]; Wirschafter, Joshua[Wirschafter.Joshua@epa.gov]; Hillenbrand, John[Hillenbrand.John@epa.gov]
From: Deschambault, Lynda
Sent: Mon 5/22/2017 10:32:24 PM
Subject: RE: Leviathan Mine - Response to U.S. EPA Request for Information Regarding the Crusher Road Slope Instability
[20170519_WellToeOfSlump.jpg](#)

Tony/ Marc,

During our site visit last Friday, we noted that wells downgradient of the slump you are monitoring have recently been capped.

When asked, Waterboard staff noted that the wells were observed as being artesian during this extremely wet year. So It seems they were capped by Atlantic Richfield sometime in mid to late April.

EPA was not aware of the high artesian flow; or that the wells were being capped.

By the end of this week or May 26th, could you please provide an update, explanation and an assessment if this could affect the pore pressure in the area by the slump?

In addition, Please include a full assessment of this in your instability monitoring plan report.

Lynda

From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
Sent: Monday, May 22, 2017 12:41 PM
To: DCarey@waterboards.ca.gov
Cc: Chris Stetler (chris.stetler@waterboards.ca.gov) <chris.stetler@waterboards.ca.gov>; Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Greg Reller <gr@burlesonconsulting.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>; Cohen,

Adam (Adam.Cohen@dgsllaw.com) <Adam.Cohen@dgsllaw.com>; 'Sandy Riese' <sriese@ensci-inc.com>; Lambeth, Gregory <Gregory.Lambeth@amecfw.com>; Yuan, Peter <Peter.Yuan@amecfw.com>; Jefferson, Jill <Jill.Jefferson@amecfw.com>; Grant Ohland - (gohland@ohlandhydrogeo.com) <gohland@ohlandhydrogeo.com>
Subject: Leviathan Mine - Crusher Road Slope Instability Monitoring Plan

Doug,

Attached is Atlantic Richfield's Monitoring Plan for the Crusher Road Slope Instability. Please let us know if the LRWQCB has any issues with us implementing this plan. We would like to begin installation of the survey points and initial monitoring as described in the plan on this Wednesday (5/24).

Please let me know if you have any questions.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

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From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]

Sent: Friday, May 12, 2017 5:38 PM

To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>

Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>;

Brown, Anthony R (RM) <anthony.brown@bp.com>; Cohen, Adam

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<Gregory.Lambeth@amecfw.com>; Starr, Robert <Robert.Starr@amecfw.com>

Subject: Leviathan Mine - Response to U.S. EPA Request for Information Regarding the Crusher Road Slope Instability

Lynda,

On behalf of Atlantic Richfield, Amec Foster Wheeler is submitting the attached memorandum presenting an update of our observations relating to the instability of the Crusher Road slope. We are in the process of preparing a slope movement monitoring plan and will forward a copy to U.S. EPA when it is complete – anticipated to be early next week.

The Crusher Road slope continues to exhibit significant movement however at this time the slope instability is not materially affecting LAS HDS Plant operations. Atlantic Richfield commenced capture of the CUD and DS and operation of the HDS Treatment System yesterday (May 11, 2017), as described in Mike Johnson's email sent to U.S. EPA last night. Progress on construction of the Upper Ponds Conveyance System and RI activities in the area have experienced delays and we expect the work schedules for these activities will continue to be impacted as we work around the slope instability. HDS operations and the ICT demonstration test could be impacted if there is additional

slope movement, damage to Pond 4, or other changed conditions.

Should you have any questions or comments please contact Tony Brown at (657) 529-4537 or anthony.brown@bp.com.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

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